

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/716,648	11/19/2003	Robert Koelliker	3061.ELO	7662
35157	7590 03/22/2005		EXAM	INER
	L STARCH AND CHI	CHAN, SING P		
P.O. BOX 6500 BRIDGEWATER, NJ 08807-3300		ART UNIT	PAPER NUMBER	
	•		1734	
			DATE MAILED: 03/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
•	10/716,648	KOELLIKER ET AL.
Office Action Summary	Examiner	Art Unit
	Sing P Chan	1734
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, the fixed period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the meaned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MO tatute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on _	·	
· · · · · · · · · · · · · · · · · · ·	This action is non-final.	
3) Since this application is in condition for allocation accordance with the practice under the condition of the condition for allocation.	·	• •
Disposition of Claims		
4) ☐ Claim(s) 1-18 is/are pending in the applica 4a) Of the above claim(s) 1-7 is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 8-18 is/are rejected. 7) ☐ Claim(s) 9 and 10 is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Exam 10)☑ The drawing(s) filed on 19 November 2003 Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11)☐ The oath or declaration is objected to by the	is/are: a) accepted or b) the drawing(s) be held in abeya rrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in a priority documents have beer preau (PCT Rule 17.2(a)).	Application No received in this National Stage
Attachment(s)	∧ □	Summary (PTO 442)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date <u>2/23/04</u>.) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)

Application/Control Number: 10/716,648 Page 2

Art Unit: 1734

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-7, drawn to a hydraulic fixing agent, classified in class 106, subclass 606.
 - II. Claims 8-18, drawn to a method for reducing the cohesion of a layer of bonded fixing agent, classified in class 156, subclass 344.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are the hydraulic fixing agent, which is used for bonding and coating a substrate and a method of using aqueous sulphate and/or aluminum salt solution to reduce the cohesion and to remove the fixing agent.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, the search required for Group I is not required for Group II, and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with Charles W. Almer on February 7, 2005 a provisional election was made without traverse to prosecute the invention of group II, claims 8-18. Affirmation of this election must be made by applicant in replying to this

Art Unit: 1734

Office action. Claims 1-7 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Objections

6. Claims 9 and 10 objected to because of the following informalities: In claim 9, line 2, "and/or" should be "and," claim 9, line 3, "aqueous solution" should be "aqueous solution of an aluminum salt," and claim 10, line 1, "aqueous solution" should be "aqueous sulphate solution." Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 8-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 8, which recited a hydraulic fixing agent of a nonelected claim 1.

A recitation of the limitation from claim 1 is required.

9. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since

Art Unit: 1734

the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 8 recites the broad recitation of the solution has a pH of at least 7.5, and the claim also recites a range of pH of 9-14 which is the narrower statement of the range/limitation.

10. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74

Application/Control Number: 10/716,648

Art Unit: 1734

(Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 10 recites the broad recitation solution concentration of 0.1-30% wt, and the claim also recites solution concentration of 1-20% wt which is the narrower statement of the range/limitation.

Page 5

- 11. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 10 recites the broad recitation a solution concentration of 0.1-70% wt, and the claim also recites 1-50% wt which is the narrower statement of the range/limitation.
- 12. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and

Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 15 recites the broad recitation textile material is hydrophilic, and the claim also recites textile material is cellulose, cellulose acetate, cotton, hemp, jute, sisal, flax, plastic, and microfibers which is the narrower statement of the range/limitation.

13. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86

Application/Control Number: 10/716,648

Art Unit: 1734

USPQ 481 (Bd. App. 1949). In the present instance, claim 16 recites the broad recitation covering layer, and the claim also recites ceramic tiles, plastic, glass, metal, wood panels, color coating, and textile materials which is the narrower statement of the range/limitation.

Page 7

- 14. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 18 recites the broad recitation at least 5 hours, and the claim also recites 12 to 48 hours which is the narrower statement of the range/limitation.
- 15. Claim 15 recited "optionally surface coated, and/or so-called microfibres." It is unclear if the claim required surface coating on the textile material or the microfibres. The examiner suggests " and/or surface coated or uncoated microfibres."

Application/Control Number: 10/716,648 Page 8

Art Unit: 1734

16. Claim 17 recites the limitation "the subsurface" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Allowable Subject Matter

- 17. Claims 8-18 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 18. The following is a statement of reasons for the indication of allowable subject matter: The claims recite a method of reducing the adhesion of a layer of hydraulic fixing agent. The method includes treating a bonded fixing agent comprising Portland cement, a sulphate, and aluminum component with an adhesive pull strength of at least 0.15N/mm² when acted upon by water for 40 hours and 0.10 N/mm² when acted upon by an aqueous sulphate solution and/or aqueous solution of an aluminum salt with a pH value of 12.5 for 40 hours to reduce the cohesion, treating the fixing agent with an aqueous sulphate solution and/or an aqueous solution of an aluminum salt with a pH of at least 7.5, and removing the bonded fixing agent. Gregor (De 3,215,777) discloses a hydraulic binder comprising Portland cement, alumina cement and calcium sulphate, which would has an adhesive pull strength at least 0.15N/mm² when acted upon by water for 40 hours and 0.10 N/mm² when acted upon by an agueous sulphate solution and/or aqueous solution of an aluminum salt with a pH value of 12.5 for 40 hours. (See English abstract of DE 3,215,777) Gregor does not disclose treating the bonded binder with an aqueous sulphate solution and/or an aqueous solution of an aluminum salt with a pH of at least 7.5, and removing the bonded binder. A search of the prior art of record did not disclose reference or references in combination with the recited feathers.

Application/Control Number: 10/716,648

Art Unit: 1734

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sing P Chan whose telephone number is 571-272-1225.

12:00PM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher A Fiorilla can be reached on 571-272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

The examiner can normally be reached on Monday-Friday 7:30AM-11:00AM and

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chan Sing Po

CHRIS FIORILLA
SUPERVISORY PATENT EXAMINER

Page 9